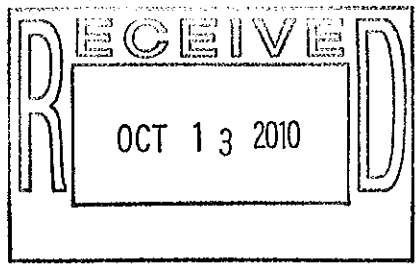
Marathon Petroleum Company LLC

1300 South Fort Street
Detroit, MI 48217
Telephone 313/843-9100

VIA FEDERAL EXPRESS

October 13, 2010



Ms. Teresa Seidel
Michigan DNRE – Air Quality Division
3058 West Grand Blvd.
Suite 2-300
Detroit, MI 48202

Re: Continuous Emissions Monitoring System Reports for the Third Quarter 2010; Marathon Petroleum Company LP – Michigan Refining Division

Dear Ms. Seidel:

This report contains information and data related to continuous emissions monitoring systems (CEMS) at Marathon Petroleum Company LP's (MPC's) Michigan Refining Division (MRD) for the third quarter 2010. These reports are submitted pursuant to the General Provisions of the federal New Source Performance Standards (40 CFR 60.7) and Rule 1170 of the Michigan Air Pollution Control Rules. In addition, this report contains information required by the first modification to the November 2005 First Revised NSR Consent Decree, United States of America et. al. v. Marathon Petroleum Company LLC (Civil Action No. 4:01CV-40119-PVG), lodged February 7, 2008 and entered on March 31, 2008. This report is divided into four attachments as follows:

Appendix A – CEMS downtime and excess emissions summary reports pursuant to 40 CFR 60.7(d) for all environmental analyzers at the Refinery. All analyzers operated at less than 5% downtime. The SRU Incinerator CEMS exceeded the limit of less than 1% excess emissions.

Appendix B - New Source Performance Standards (NSPS) Subpart J Alternate Monitoring Plan (AMP) data for eight streams: (1) Alky Deethanizer off-gas H2S, (2) Alky Spent Caustic H2S, (3) FCCU Disulfide off-gas H2S, (4) CP Spent Caustic Drum Vent H2S, (5) SR Aromatics Sump Vent H2S, (6) CCR Chlorsorb Vent SO2, (7) CCR/SR Recycle H2 H2S, and (8) DHT/Unifiner Recycle H2 H2S.

The refinery has four additional AMPs for which no data is being submitted: (1) The Crude Spent Caustic Drum was permanently shutdown, (2) The BT Recycle Hydrogen, which was part of the BT Platformer unit, was permanently shutdown in September 2005, (3) CCR Lockhopper Vent Gas which currently cannot physically be vented to the flare or fuel system and (4) Propylene Deethanizer off-gas was re-routed to a location that the refinery's fuel gas H2S analyzer will receive the stream. All AMPs were obtained in accordance with the NSPS General Provisions (40 CFR §60.13(i)).

Appendix C – Data from cylinder gas audits performed on CEMS located on the exhaust of the B&W Boiler, Crude and Vacuum Heaters, CCR Charge Heater, East Plant H2S, West Plant H2S, FCC Charge Heater, Fluid Catalytic Cracking Unit (FCCU) Regenerator, the Sulfur Plant Thermal Oxidizer, and the Zurn Boiler.

In October 2009 MDNRE requested MRD to conduct a Calibration Gas Audit (CGA) on the Zurn O2 analyzer. MRD's stance has been that this analyzer does not apply to Appendix F, including the CGA which is detailed in Section 5 of Appendix F. However, MRD agreed to begin conducting quarterly CGAs starting first quarter 2010. The CGAs were conducted on the Zurn O2 analyzer successfully in the first, second, and third quarters 2010; although, the oxygen cylinders used to conduct the CGAs were not EPA protocol gases. MRD does not feel this is a violation, since the rule is not applicable. MRD will continue to utilize the current oxygen cylinder unless directed differently by your office.

Please note, under the refinery's Title V permit in Table E-1.3, Section III.A.1 it indicates that quarterly cylinder gas audits of the FCCU opacity monitor are required; however, a quarterly cylinder gas audit program does not exist for this type of analyzer. The refinery is maintaining the analyzer according to the PTI 28-02A and completing a yearly audit of the analyzer. The refinery has requested a wording modification in the Title V renewal.

Appendix D – Excess Emission Report for the SRU Incinerator SO2 exceedence of 1% excess emissions.

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information in Appendices A through D of this submittal is, to the best of my knowledge and belief, true, accurate, and complete. Please contact Tabetha Daum at (313) 297-4701 if you have any questions concerning this submittal.

Sincerely,

C T Case

Marathon Petroleum Company LP
By: MPC Investment LLC, its General Partner
By: C. T. Case
Title: Deputy Assistant Secretary

Attachments

cc: Technical Programs Unit - MDNRE: AQD – c/o Karen Kajiya-Mills – *Federal Express*

Chief, Environmental Enforcement Section, Environment and Natural Resources Division, U.S. DOJ - *Federal Express*

U.S. EPA, Director of Air Enforcement Division c/o Matrix Environmental and Geotechnical– *Federal Express*

Air and Radiation Division, U.S. EPA Region 5 – *Federal Express*

Office of Regional Counsel, U.S. EPA Region 5 – *Federal Express*

Appendix A

CEMS Downtime and Excess Emissions Summary Reports

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Monitor Model: Limas 11 (NOx)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 0.20 lbs/MMBTU

Emission Unit: BW Boiler

Average Time: daily average

Total Operating Hours of Emission Unit: 1571 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	45.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	5.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	50.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	3.18	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Emission Unit: BW Boiler (CO)

Average Time: daily average

Total Operating Hours of Emission Unit: 1571 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	45.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	5.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	50.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	3.18	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Monitor Model: Magnos 106 (O2)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: BW Boiler (O2)

Average Time: none

Total Operating Hours of Emission Unit: 1571 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	45.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	5.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	50.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	3.18	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 123 ppm
Average Time: 7 day average
Emission Limit: 93 ppm
Average Time: 365 day average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	19.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	21.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	40.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	1.81	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 500 ppm

Average Time: one hour average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	19.00	hrs
C. Process Problems	12.00	hrs	C. QA Calibration	21.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	12.00	hrs	2. Total Duration	40.00	hrs
3. Percent of Total Excess Emissions	0.54	%	3. Percent of Total CEM Downtime	1.81	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Magnos 16 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	19.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	21.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	40.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	1.81	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: (SO2) NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Limas 11 (SO2)

Manufacturer: ABB

Emission Limit: 70 ppm
Average Time: 7 day average
Emission Limit: 35 ppm
Average Time: 365 day average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	19.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	21.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	40.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	1.81	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 (Opacity) (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: FCCU Regenerator

Monitor Model: Lighthawk 560

Manufacturer: Teledyne Monitor Labs

Emission Limit: 20% opacity

Average Time: 6 minute average

Total Operating Hours of Emission Unit: 2190 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	16.40	hrs	C. QA Calibration	5.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	16.40	hrs	2. Total Duration	5.00	hrs
3. Percent of Total Excess Emissions	0.75	%	3. Percent of Total CEM Downtime	0.23	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS (H2S) HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Monitor Model: 2000GC

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 162 ppm

Average Time: 3 hour average

Emission Unit: West Plant Fuel Gas NSPS Heaters

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	9.00 hrs	C. QA Calibration	7.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	9.00 hrs	2. Total Duration	7.00 hrs
3. Percent of Total Excess Emissions	0.41 %	3. Percent of Total CEM Downtime	0.32 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS (H2S) HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Monitor Model: 2000 Vista II

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 162 ppm

Average Time: 3 hour average

Emission Unit: East Plant Fuel Gas NSPS Heaters

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	9.00	hrs	C. QA Calibration	2.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	9.00	hrs	2. Total Duration	2.00	hrs
3. Percent of Total Excess Emissions	0.41	%	3. Percent of Total CEM Downtime	0.09	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Zurn Boiler

Monitor Model: ENDA-1120

Manufacturer: Horiba

Emission Limit: 0.2 lbs/MMBTU

Average Time: 24 hour average

Total Operating Hours of Emission Unit: 816.5 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	3.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	3.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.37	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Zurn Boiler

Monitor Model: ZA8

Manufacturer: Yokagowa

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 816.5 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	3.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	3.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.37	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: (SO2) NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Monitor Model: 460 SRU

Manufacturer: Ametek

Emission Limit: 250 ppm

Average Time: 12 hour average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	49.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	28.00	hrs	C. QA Calibration	20.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	28.00	hrs	2. Total Duration	69.00	hrs
3. Percent of Total Excess Emissions	1.27	%	3. Percent of Total CEM Downtime	3.13	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Monitor Model: 460 SRU

Manufacturer: Ametek

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	49.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	20.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	69.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	3.13	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: CCR Charge Heater (CO)

Monitor Model: URAS 14 (CO)

Manufacturer: ABB

Emission Limit: 400 ppm

Average Time: daily average

Total Operating Hours of Emission Unit: 2200 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	1.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	1.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.05	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: CCR Charge Heater (O2)

Monitor Model: Magnos 106 (O2)

Manufacturer: ABB

Emission Limit: none

Average Time: none

Total Operating Hours of Emission Unit: 2200 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	1.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	1.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.05	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx (CO) CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Average Time: 1 hour average

Emission Unit: FCCU Charge Heater

Total Operating Hours of Emission Unit: 2200 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	62.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	62.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	2.82	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Monitor Model: Magnos 106 (O2)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Average Time: none

Emission Unit: FCCU Charge Heater

Total Operating Hours of Emission Unit: 2200 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	62.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	62.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	2.82	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 (NOx) CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Crude/Vacuum Charge Heater

Monitor Model: Limas 11 (NOx)

Manufacturer: ABB

Emission Limit: 0.05 lbs/MMBTU

Average Time: annual rolling average

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	4.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	4.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.18	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 (O2) TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Third 2010

Monitor Model: Magnos 106 (O2)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Average Time: none

Emission Unit: Crude/Vacuum Charge Heater (O2)

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	4.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	4.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.18 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Third 2010

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Emission Unit: Vents to CP Flare

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	1.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes*	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	1.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.05	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Third 2010

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Emission Unit: Vents to Alkylation Unit Flare

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	1.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes*	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	1.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.05	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Third 2010

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Emission Unit: Vents to Unifiner Flare

Monitor Model: SLX-202

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary			CEM Performance Summary		
1. Duration of Excess Emissions			1. Duration of CEM Downtime During Source Operation		
A. Startup/Shutdown	0.00	hrs	A. Monitor Malfunction	0.00	hrs
B. Control Equipment	0.00	hrs	B. Non- Monitor Malfunction	0.00	hrs
C. Process Problems	0.00	hrs	C. QA Calibration	1.00	hrs
D. Other Known Causes	0.00	hrs	D. Other Known Causes*	0.00	hrs
E. Unknown Causes	0.00	hrs	E. Unknown Causes	0.00	hrs
2. Total Duration	0.00	hrs	2. Total Duration	1.00	hrs
3. Percent of Total Excess Emissions	0.00	%	3. Percent of Total CEM Downtime	0.05	%

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Third 2010

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Average Time: continuously

Emission Unit: Vents to Crude Flare

Total Operating Hours of Emission Unit: 2208 hrs

Emission Data Summary		CEM Performance Summary	
1. Duration of Excess Emissions		1. Duration of CEM Downtime During Source Operation	
A. Startup/Shutdown	0.00 hrs	A. Monitor Malfunction	0.00 hrs
B. Control Equipment	0.00 hrs	B. Non- Monitor Malfunction	0.00 hrs
C. Process Problems	0.00 hrs	C. QA Calibration	1.00 hrs
D. Other Known Causes	0.00 hrs	D. Other Known Causes*	0.00 hrs
E. Unknown Causes	0.00 hrs	E. Unknown Causes	0.00 hrs
2. Total Duration	0.00 hrs	2. Total Duration	1.00 hrs
3. Percent of Total Excess Emissions	0.00 %	3. Percent of Total CEM Downtime	0.05 %

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Appendix B

New Source Performance Standards (NSPS) Subpart J
Alternate Monitoring Plan (AMP) Data

Date	Complex 2 (AMP Sheet) - A Alky Deethanizer off-gas H2S ppm 2 x week	Complex 2 (AMP Sheet) - B Alky Spent Caustic H2S ppm When flaring	Complex 3 (RADAR) - C FCCU Disulfide off-gas H2S ppm 2 x year	Complex 3 (RADAR) - D CP Spent Caustic Drum Vent H2S ppm 2 x year	Complex 4 (AMP Sheet) - E SR Aromatics Sump Vent H2S ppm 2 x year	Complex 4 (AMP Sheet) - F CCR Chlorsorb Vent SO2 ppm 2 x year	Complex 4 (Lab Data) CCR/SR Recycle H2 H2S ppm 2 x year	Complex 2 (Lab Data) DHT/Unifiner Recycle H2 H2S ppm 5 x week
7/1/2010	0	0			0		<1	<1
7/2/2010	0	0					<1	<1
7/3/2010	0	0					<1	--
7/4/2010	0	0					<1	<1
7/5/2010	0	0	0	0			<1	<1
7/6/2010	0	0			0		<1	--
7/7/2010	0	0			0	0	<1	<1
7/8/2010	0	0			0		<1	<1
7/9/2010	0	0					<1	<1
7/10/2010	0	0					<1	<1
7/11/2010	0	0					<1	<1
7/12/2010	0	0					<1	<1
7/13/2010	0	0			0		<1	<1
7/14/2010	0	0					<1	<1
7/15/2010	0	0			0		<1	--
7/16/2010	0	0					<1	<1
7/17/2010	0	0					<1	<1
7/18/2010	0	0					<1	<1
7/19/2010	0	0					<1	<1
7/20/2010	0	0			0		<1	<1
7/21/2010	0	0			0	0	<1	<1
7/22/2010	0	0			0		<1	<1
7/23/2010	0	0					<1	<1
7/24/2010	0	0					<1	<1
7/25/2010	0	0					<1	<1
7/26/2010	0	0					<1	<1
7/27/2010	0	0			0		<1	<1
7/28/2010	0	0					<1	<1
7/29/2010	0						<1	<1
7/30/2010	0						<1	<1
7/31/2010	0						<1	<1
8/1/2010	0	0					<1	<1
8/2/2010	0	0					<1	<1
8/3/2010	0				0		<1	<1
8/4/2010	0	0			0	0	<1	<1
8/5/2010	0	0			0		<1	<1
8/6/2010	0	0					<1	<1
8/7/2010	0	0					<1	<1
8/8/2010	0	0					<1	<1
8/9/2010	0	0					<1	<1
8/10/2010	0	0			0		<1	<1
8/11/2010	0	0			0	0	<1	<1
8/12/2010	0	0			0		<1	<1
8/13/2010	0	0					<1	<1
8/14/2010	0	0					<1	<1
8/15/2010	0	0					<1	<1
8/16/2010	0	0					<1	<1
8/17/2010	0	0			0		<1	<1
8/18/2010	0	0			0	0	<1	Unit Down
8/19/2010	0	0			0		<1	Unit Down
8/20/2010	0	0					<1	Unit Down
8/21/2010	0	0					141 *	<1
8/22/2010	0						--	--
8/23/2010	0						<1	--
8/24/2010	0	0			0		<1	<1
8/25/2010	0	0			0	0	<1	<1
8/26/2010	0	0			0		<1	<1
8/27/2010	0	0					<1	<1
8/28/2010	0	0					<1	--

Date	Complex 2 (AMP Sheet) - A Alky Decthanizer off-gas H2S ppm 2 x week	Complex 2 (AMP Sheet) - B Alky Spent Caustic H2S ppm When flaring	Complex 3 (RADAR) - C FCCU Disulfide off-gas H2S ppm 2 x year	Complex 3 (RADAR) - D CP Spent Caustic Drum Vent H2S ppm 2 x year	Complex 4 (AMP Sheet) - E SR Aromatics Sump Vent H2S ppm 2 x year	Complex 4 (AMP Sheet) - F CCR Chlorsorb Vent SO2 ppm 2 x year	Complex 4 (Lab Data) CCR/SR Recycle H2 H2S ppm 2 x year	Complex 2 (Lab Data) DHT/Unifiner Recycle H2 H2S ppm 5 x week
8/29/2010	0						--	<1
8/30/2010	0	0					<1	<1
8/31/2010		0					<1	<1
9/1/2010	0	0			0	0	<1	<1
9/2/2010	0	0			0		<1	<1
9/3/2010	0	0					<1	<1
9/4/2010	0	0					<1	<1
9/5/2010	0	0					<1	<1
9/6/2010	0	0					<1	<1
9/7/2010	0	0			0		<1	<1
9/8/2010	0	0			0	0	<1	<1
9/9/2010	0	0			0		<1	<1
9/10/2010	0	0					<1	<1
9/11/2010	0	0					<1	<1
9/12/2010	0	0					<1	<1
9/13/2010	0	0					<1	<1
9/14/2010	0	0					<1	<1
9/15/2010	0	0					<1	<1
9/16/2010	0	0			0		<1	<1
9/17/2010	0	0					<1	<1
9/18/2010	0	0					<1	<1
9/19/2010	0	0					<1	<1
9/20/2010	0	0					-	<1
9/21/2010	0				0		--	<1
9/22/2010	0	0			0	0	<1	<1
9/23/2010	0	0			0		<1	<1
9/24/2010	0	0					<1	<1
9/25/2010	0	0					<1	<1
9/26/2010	0	0					<1	<1
9/27/2010	0	0					<1	<1
9/28/2010	0	0					<1	<1
9/29/2010	0	0			0	0	<1	<1
9/30/2010	0	0			0		<1	<1

* Did not vent to the flare

Appendix C

Cylinder Gas Audit Information

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: B&W Boiler CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (NOx), Magnos 106 (O2), Uras 14 (CO)

Constituents monitored (w/ranges): NOx (0-500), CO (0-500), O2 (0-10%)

Date CGA performed: 8/30/2010

Performed by: Doug Pek and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	NO	low	CC320264	01/08/12	128	ppm
76-188-232	CO	low	CC320264	01/08/12	125	ppm
76-188-219	O2	low	EB0023855	04/13/13	5.51	%
76-188-231	NO	mid	EB0019530	01/11/12	272	ppm
76-188-231	CO	mid	EB0019530	01/11/12	277	ppm
76-188-215	O2	mid	SA14533	04/25/11	9.13	%

Low-level CGA:

Start time	End time	NO	CO	O2
10:19	10:31	127	124.8	5.48
10:31	10:43	127	124.8	5.48
10:43	10:55	127	124.8	5.48
Average		127.0	124.8	5.48
Cal gas value		128.0	125.0	5.51
CGA accuracy		0.8%	0.2%	0.5%

High-level CGA:

Start time	End time	NO	CO	O2
12:45	12:57	273.5	276.8	9.08
12:57	13:09	273.8	276.8	9.08
13:09	13:21	274	276.8	9.08
Average		273.8	276.8	9.08
Cal gas value		272.0	277.0	9.13
CGA accuracy		0.6%	0.1%	0.5%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: Crude and Vacuum Heater NOx

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas11 and Magnos 106

Constituents monitored (w/ranges): NOx (0-100) O2 (0-10%)

Date CGA performed: 7/6/2010

Performed by: Doug Pek and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-132	NO	low	SX-10418	11/17/10	24.9	ppm
76-188-219	O2	low	CC308958	11/23/12	5.50	%
76-188-132	NO	mid	CC316171	12/29/11	55.7	ppm
76-188-215	O2	mid	SA2473	01/09/12	9.02	%

Low-level CGA:

Start time	End time	NO	O2
12:48	1:00	24.8	5.15
1:00	1:12	24.8	5.14
1:12	1:25	24.6	5.15
Average		24.7	5.15
Cal gas value		24.9	5.50
CGA accuracy		0.67%	6.42%

Mid-level CGA:

Start time	End time	NO	O2
2:00	2:13	55.4	8.51
2:13	2:26	55.7	8.51
2:26	2:38	55.7	8.51
Average		55.6	8.51
Cal gas value		55.7	9.02
CGA accuracy		0.18%	5.65%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: CCR Charge Heater

Analyzer Manufacturer: ABB

Analyzer model #'s: URAS 14 and Magnos 106

Constituents monitored (w/ranges): CO (0-500) and O2 (0-10%)

Date CGA performed: 9/14/2010

Performed by: Theo Taylor and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-166	CO	low	EB0004205	09/01/12	125.0	ppm
76-188-166	O2	low	EB0004205	09/01/12	4.98	%
76-188-165	CO	mid	EB0022817	04/26/13	271	ppm
76-188-165	O2	mid	EB0022817	04/26/13	9.15	%

Low-level CGA:

Start time	End time	CO	O2
9:43	9:52	122	4.76
9:52	10:01	122	4.78
10:01	10:11	122	4.76
Average		122	4.77
Cal gas value		125.0	4.98
CGA accuracy		2.4%	4.3%

Mid-level CGA:

Start time	End time	CO	O2
10:12	10:21	266	8.84
10:21	10:30	266	8.87
10:30	10:40	266	8.88
Average		266	8.86
Cal gas value		271	9.15
CGA accuracy		1.8%	3.1%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: East Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000 VISTA II

Constituents monitored (w/ranges): H2S (0-300)

Date CGA performed: 7/27/2010

Performed by: E. Justa and D. Pek

Analyzer: West Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000GC

Constituents monitored (w/ranges): H2S (0-300)

Date CGA performed: 8/25/2010

Performed by: T. Taylor and G. Senczyszyn

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-017	H2S	low	EB0020396	11/10/10	75.5	ppm
76-188-019	H2S	mid	EB0003813	09/01/10	165	ppm

East Plant Fuel Gas

Low-level CGA:

Start time	End time	H2S
9:48	9:53	71
9:53	9:58	72.93
9:58	10:03	72.95
Average		72
Cal gas value		75.5
CGA accuracy		4.2%

Mid-level CGA:

Start time	End time	H2S
10:09	10:14	162.8
10:14	10:19	163.7
10:19	10:24	165.1
Average		164
Cal gas value		165
CGA accuracy		0.7%

West Plant Fuel Gas

Low-level CGA:

Start time	End time	H2S
16:18	16:22	73.58
16:22	16:26	74.45
16:26	16:30	74.04
Average		74
Cal gas value		75.5
CGA accuracy		2.0%

Mid-level CGA:

Start time	End time	H2S
16:34	16:38	161.4
16:38	16:42	161.9
16:42	16:46	164.2
Average		162.5
Cal gas value		165
CGA accuracy		1.5%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: FCC Charge Heater

Analyzer Manufacturer: ABB

Analyzer model #'s: URAS 14 and Magnos 106

Constituents monitored (w/ranges): CO (0-500) and O2 (0-10%)

Date CGA performed: 7/13/2010

Performed by: Doug Pek and Eric Justa

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-166	CO	low	CC275870	03/20/12	124.0	ppm
76-188-166	O2	low	CC275870	03/20/12	5.08	%
76-188-165	CO	mid	EB0021084	01/25/13	274	ppm
76-188-165	O2	mid	EB0021084	01/25/13	8.56	%

Low-level CGA:

Start time	End time	CO	O2
10:00	10:10	124.0	5.36
10:10	10:20	124.0	5.40
10:20	10:30	124.0	5.41
Average		124.0	5.39
Cal gas value		124.0	5.08
CGA accuracy		0.0%	6.1%

Mid-level CGA:

Start time	End time	CO	O2
10:33	10:41	273.8	8.8
10:41	10:50	273.8	8.77
10:51	11:00	273.8	8.85
Average		273.8	8.81
Cal gas value		274	8.56
CGA accuracy		0.1%	2.9%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: FCCU Regenerator exhaust CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (SO2/NOx), Magnos 106 (O2), Uras 14 (CO/CO2)

Constituents monitored (w/ranges): SO2 (0-100/0-500), NOx (0-1000), CO (0-1000), CO2 (0-20%), O2 (0-10%)

Date CGA performed: 8/3/2010

Performed by: Doug Pek and Theo Taylor

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-218	SO2	low	EB0022636	06/25/15	125.0	ppm
76-188-218	NO	low	EB0022636	06/25/15	248.0	ppm
76-188-218	CO	low	EB0022636	06/25/15	242	ppm
76-188-218	CO2	low	EB0022636	06/25/15	6.57	%
76-188-219	O2	low	CC186745	02/16/13	5.51	%
76-188-213	SO2	mid	CC300240	12/03/11	265.0	ppm
76-188-213	NO	mid	CC300240	12/03/11	547.0	ppm
76-188-213	CO	mid	CC300240	12/03/11	545.0	ppm
76-188-213	CO2	mid	CC300240	12/03/11	11.0	%
76-188-215	O2	mid	CC258404	02/25/11	9.13	%
76-188-215	NO2	mid	CC258404	02/25/11	99.2	ppm

Low-level CGA:

Start time	End time	SO2	NO	CO	CO2	O2
10:10	10:21	125	248	256	6.67	5.53
10:21	10:34	125	248	257	6.67	5.53
10:34	10:47	125.4	248	257	6.67	5.53
Average		125	248	257	6.67	5.53
Cal gas value		125.0	248.0	242.0	6.57	5.51
CGA accuracy		0.1%	0.0%	6.1%	1.5%	0.4%

Mid-level CGA:

Start time	End time	SO2	NO	CO	CO2	O2
10:50	11:03	266	549	558	11.1	9.17
11:03	11:16	266	548	558	11.1	9.17
11:16	11:30	266	549	558	11.1	9.17
Average		266	549	558	11.10	9.17
Cal gas value		265	547.0	545	11	9.13
CGA accuracy		0.4%	0.3%	2.4%	0.9%	0.4%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: SRU Thermal Oxidizer SO2

Analyzer Manufacturer: Ametek

Analyzer model #'s: 460 SRU

Constituents monitored (w/ranges): SO2 (0-500) O2 (0-10%)

Date CGA performed: 9/7/2010

Performed by: Doug Pek

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	SO2	low	EB0002129	12/04/11	122.0	ppm
76-188-219	O2	low	EB0004459	05/19/11	5.49	%
76-188-231	SO2	mid	EB0022261	03/02/12	270	ppm
76-188-215	O2	mid	SA2473	01/09/12	9.02	%

Low-level CGA:

Start time	End time	SO2	O2
12:16	12:22	119	5.6
12:23	12:29	121	5.4
12:30	12:36	122	5.4
Average		121	5.5
Cal gas value		122	5.5
CGA accuracy		1.1%	0.4%

Mid-level CGA:

Start time	End time	SO2	O2
12:49	12:56	262	9.2
12:57	13:03	266	9.1
13:04	13:11	269	9.0
Average		266	9.1
Cal gas value		270	9.0
CGA accuracy		1.6%	0.9%

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: Zurn Boiler NOx and O2

Analyzer Manufacturer: Horiba (NOx) and Yokagowa (O2)

Analyzer model #'s: ENDA-1120 (NOx) and ZA8 (O2)

Constituents monitored (w/ranges): NOx (0-500) O2 (0-10%)

Calibration gases used:

MAP stock #	Constituent	low- or mid-	Cylinder #	Exp date	Certified concentration	Units
76-188-232	NO	low	CC320264	01/08/12	128.0	ppm
76-188-219	O2	low	GMT10356TG	12/03/11	2.00	%
76-188-231	NO	mid	EB0009809	08/13/11	268	ppm
76-188-215	O2	mid	MA116181	01/20/14	8.00	%

NOx Analyzer

Date CGA performed: 9/24/2010
Performed by: Theo Taylor and Eric Justa

Low-level CGA:

Start time	End time	NO
9:52	10:01	132
10:01	10:11	130
10:11	10:20	129
Average		130
Cal gas value		128.0
CGA accuracy		1.8%

Mid-level CGA:

Start time	End time	NO
10:21	10:30	272
10:30	10:39	272
10:39	10:48	272
Average		272
Cal gas value		268
CGA accuracy		1.5%

O2 Analyzer

Date CGA performed: 9/24/2010
Performed by: Theo Taylor and Eric Justa

Low-level CGA:

Start time	End time	O2
12:42	12:45	1.95
12:45	12:48	1.99
12:48	12:51	2.01
Average		1.98
Cal gas value		2.00
CGA accuracy		0.8%

Mid-level CGA:

Start time	End time	O2
12:52	12:55	8.15
12:55	12:58	8.25
12:58	13:01	8.28
Average		8.23
Cal gas value		8.00
CGA accuracy		2.8%

Appendix D

Excess Emission Report

Excess Emission Report
Third Quarter 2010
Marathon Petroleum Company LLC - Michigan Refining Division
Time Periods are Approximate

FCCU Regenerator

Start Date/Time*	End Date/Time*	Duration of Downtime (hrs)	Equipment	Emissions (ppm 12 hr ave)**	Cause	Corrective Action
8/22/10 5:00 AM	8/22/10 6:00 AM	1	SRU Incinerator	290	The refinery lost power causing all units throughout the refinery to shutdown unexpectedly resulting in excess emissions.	The unit was brought back on line and conditions stabilized.
8/22/10 6:00 AM	8/22/10 7:00 AM	1	SRU Incinerator	351		
8/22/10 7:00 AM	8/22/10 8:00 AM	1	SRU Incinerator	404		
8/22/10 8:00 AM	8/22/10 9:00 AM	1	SRU Incinerator	458		
8/22/10 9:00 AM	8/22/10 10:00 AM	1	SRU Incinerator	517		
8/22/10 10:00 AM	8/22/10 11:00 AM	1	SRU Incinerator	509		
8/22/10 11:00 AM	8/22/10 12:00 PM	1	SRU Incinerator	558		
8/22/10 12:00 PM	8/22/10 1:00 PM	1	SRU Incinerator	608		
8/22/10 1:00 PM	8/22/10 2:00 PM	1	SRU Incinerator	657		
8/22/10 2:00 PM	8/22/10 3:00 PM	1	SRU Incinerator	700		
8/22/10 3:00 PM	8/22/10 4:00 PM	1	SRU Incinerator	710		
8/22/10 4:00 PM	8/22/10 5:00 PM	1	SRU Incinerator	655		
8/22/10 5:00 PM	8/22/10 6:00 PM	1	SRU Incinerator	603		
8/22/10 6:00 PM	8/22/10 7:00 PM	1	SRU Incinerator	561		
8/22/10 7:00 PM	8/22/10 8:00 PM	1	SRU Incinerator	523		
8/22/10 8:00 PM	8/22/10 9:00 PM	1	SRU Incinerator	483		
8/22/10 9:00 PM	8/22/10 10:00 PM	1	SRU Incinerator	434		
8/22/10 10:00 PM	8/22/10 11:00 PM	1	SRU Incinerator	423		
8/22/10 11:00 PM	8/23/10 12:00 AM	1	SRU Incinerator	387		
8/23/10 12:00 AM	8/23/10 1:00 AM	1	SRU Incinerator	340	SO2 spiked in the incinerator caused by A train getting overloaded and not having enough air supply. This was associated with the startup of the units from the loss of power on 8/22/2010/	The operator placed B train on acid gas and the SO2 came back down.
8/23/10 1:00 AM	8/23/10 2:00 AM	1	SRU Incinerator	296		
8/23/10 2:00 AM	8/23/10 3:00 AM	1	SRU Incinerator	254		
8/23/10 2:00 PM	8/23/10 3:00 PM	1	SRU Incinerator	281		
8/23/10 3:00 PM	8/23/10 4:00 PM	1	SRU Incinerator	284		
8/23/10 4:00 PM	8/23/10 5:00 PM	1	SRU Incinerator	276		
8/23/10 5:00 PM	8/23/10 6:00 PM	1	SRU Incinerator	262		
9/15/10 4:00 AM	9/15/10 5:00 AM	1	SRU Incinerator	269	SO2 spiked in the incinerator caused by foaming.	The operator brought unit back to normal conditions.
9/15/10 5:00 AM	9/15/10 6:00 AM	1	SRU Incinerator	261		
	Total	28				
	Operating Hours	2208				
	% Excess Emissions	1.27				

*The start time and end time are approximate.
**Emission limit is 250 ppm SO2 (12 hour average)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT REPORT CERTIFICATION

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating (RO) Permit program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as described in General Condition No. 22 in the RO Permit and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name: Marathon Petroleum Company LP County: Wayne

Source Address: 1300 South Fort Street City: Detroit

AQD Source ID (SRN): A9831 RO Permit No.: 199700013c RO Permit Section No.: 01

Please check the appropriate box(es):

☐ **Annual Compliance Certification (General Condition No. 28 and No. 29 of the RO Permit)**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the RO Permit, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the RO Permit.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the RO Permit, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the RO Permit, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (General Condition No. 23 of the RO Permit)**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the RO Permit were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the RO Permit were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 7/1/2010 To 9/30/2010

Additional monitoring reports or other applicable documents required by the RO Permit are attached as described:

Attached is the Third Quarter 2010 CEMS compliance report.

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete.

C. T. Case	Deputy Assistant Secretary	(313) 843-9100
Name of Responsible Official (print or type)	Title	Phone Number
C T Case		10/13/10
Signature of Responsible Official		Date

* Photocopy this form as needed